,

## : AIDA-T

(Agrobotic Intelligent Data Analyzer for Tomatoes)

**-** (

: : 2024-2026 . (24 ) : 50

 $25 \qquad \quad 2025 \ \ .$ 

```
1
                              25-30\% ,
                                         15
                                                       2024 .
                        70%.
                               (0.1-3.0)
                               86 \text{-} 87\%
 CNN-
                    (RANSAC + PointNet)
                                                    15\%
                  12
           : 15-20
                  (
                                 2.5-3 )
2
                             \pm 1.5
            :
                                              RANSAC PointNet
            CNN-
3
3.1
                             (12+)
                   Li-ion
```

		86-87%				
		15%				
Re	OS2					
			,		:	
CNN-						
	Q1/Q	22		IEEE IRO	OS, ICRA, AA	AI.
:						
70%						
15-20%						
	30-40%					
2.5-3						
:						
	CNN- $70\%$ $15-20\%$ $2.5-3$	Q1/C $70%$ $15-20%$ $30-40%$ $2.5-3$	ROS2  CNN- Q1/Q2  70% 15-20% 30-40% 2.5-3	ROS2 , ROS2 , , , , , , , , , , , , , , , , , , ,	Toward 15% ROS2 , The second of the second	ROS2 , , ; ; CNN- Q1/Q2 IEEE IROS, ICRA, AA 70% 15-20% 30-40% 2.5-3

4.3

5

5.1

• : 280 (2024), 12-15% • : 15 (2024), 25-30%

• AIDA-T: 2.1  $(2025) \rightarrow 4.8$  (2030)

• 2030 : 3-5% (150-250 )

5.2

AIDA-T	Bosch DeepField	Iron Ox
86-87%	75-80%	70-75%
≤15%	15-20%	12-15%
±1.5	±5	±3
15-20	\$150-200	\$120-180

1:

6

6.1

: "

•

•

• ( AIDA-T)

•

6.2

: "
: 72 . ,

```
6.3

AIDA-T Gazebo/ROS

1 (1-6 .): , , 3D-
2 (7-12 .): ,
3 (13-18 .): , ,
4 (19-24 .): , ,
EXAMPLE 1.
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